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Each man planted his garden without male assistance. However, when planting vegetables other than manioc, he was often aided by his wife or wives. During the whole Trumaí planting season Quain observed only one instance of cooperative labor in manioc planting. This occurred in the garden of Uluku, a Kamayurá, who had cleared a plot in the Trumaí gardens but had not returned in time to plant it. The work was initiated by the Trumaí chief, as this was an obligation of the village to an outsider. However, the men largely ignored his call and, of those who responded, most were co-residents of the chief.

Fishing Techniques

A variety of fish were caught and eaten by the Trumaí. The exact species were not recorded by Quain, but those in Oberg's partial list are also found in other tributaries of the Amazon.[2] A small fish called *kate* by the Trumaí was caught in great quantities during Quain's visit. Fish figured importantly in the diet throughout the year, but they were not as easily caught during the rainy season when the rivers overflowed into the adjacent forest. Fish were taken by hook and line, bow and arrow, poisoning, traps, nets and weirs.

Shooting with the bow and arrow was the most important single method. The fisherman stood in the bow of his bark canoe with bow and arrow poised while his helper paddled slowly in the stern. When a fish was sighted the arrow usually found its mark with surprising accuracy. Insofar as is known, only hooks and lines obtained from the whites by trade or gift were used. Quain found a great demand for them, and he gave many to the Trumaí and other groups.

Two kinds of poison were used to drug fish in the lagoons. The more important was made from the shredded bark of the *tawasi* tree and was effective only upon the small *kate* fish. The other was made from the ripe fruit of the *fi/t'a* tree, the bark of which was used in the washing of the body after ceremonial scarification.[3]

Fish traps were baited and set out in the lagoon. These were basket containers, long and rounded in shape. An open-ended basket cone, through which the fish swam, was set in the mouth. Once inside, the fish could not find their way out through the small end of the cone, which was pointed towards the inside of the trap. According to one informant, the Mehinaku could make fish traps, but not the Trumaí. Quain, however, found that at least three Trumaí men made traps,

[2] *Ibid.* pp. 25–26.

[3] The exact species of these trees are not known. Oberg (1953, pp. 26–27) refers to the use of *timbó* in a general sense only. *Timbó* commonly refers to the root of a small shrub and not to the above-mentioned drugs. Von den Steinen (1897) makes no reference to fish drugs.

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Older boys and men went into the forest to cut down the trees and bring the boughs back to the village. The men then took turns in pounding the boughs into coarse fiber with the blunt end of an axe. Even men who did not participate in the gathering of the boughs helped in their reduction into fiber.

The group nature of the work is understandable in view of the communal labor and benefits involved in fish poisoning. Once the boughs were reduced, the fibers were cut into sheaves of about two and one-half feet in length. These sheaves were used to poison the water. Interestingly, both bark and wood were pounded up together, although, according to Quain, only the bark is poisonous.

The *buriti* palm supplied two raw materials, *isinke* and *isinke hut'*. *Isinke* was obtained from the heart of the young spike of the growing tip of the palm. The top was separated to give access to the heart, and long fibers were pulled out, which were then hung in the interior of the house to dry. When dry they resembled a heavy hemp, and were used to make cord. *Isinke hut'* is the leaf of the *buriti*, which was used in basketry.

Hunting

Hunting was not important at any time during Quain's stay. Tapir, peccary, deer, monkey, jaguar, squirrel and paca, a large rodent, are among the animals mentioned by Quain as being found in the vicinity, but only the monkey and paca were eaten. Birds were also eaten, and their feathers were used for ornamentation. Terrapin were caught by hand, either by creeping up on them or by swimming close to them under water and grabbing them by the shell. All other game was shot with the bow and arrow, except for the capybara, called *tsimo* by the Trumaí. Canoeists speared the swimming animals. The spear was used at no other time in hunting or fishing, although the Yaulapití speared fish.

Quain saw no organized hunting parties. One or two men sometimes set out with the express intention of hunting, but most animals were shot while on fishing or gathering expeditions. The Trumaí did not rely on meat, nor did they show a craving for it. Hunting seemed to be more a pastime and sport than a subsistence activity. When Quain hunted with the Trumaí he noticed that they wanted him to kill birds more for their feathers than for their meat. They also wanted him to kill several entirely worthless birds because, as two of the men expressed it, they wanted "to see it."

Foods

The horticulture, fishing and gathering economy of the Trumaí gave them a fair variety and adequate quantity of food during most of the year, barring crop failure. The Trumaí, however, had a considerably

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clouds of tobacco smoke were first blown over the affected area by the curer who then, with noisy inhalations, sucked that part of the body in which the ailment appeared to be localized. Insofar as Quain was able to determine, no foreign objects were "extracted," and he was not given any explanation as to why the treatment worked.

Knowledge of curing was widespread among the men. All the men knew how to use botanicals, and over half, all said to have been taught by Matiwana, knew the art of *jau'kath*. Men cured their wives, children, or other close blood relatives. When Aloari was treating his son's ringworm he was asked by Quain whether he would also treat a young boy who was only indirectly related. Aloari refused because the boy had closer kinsmen who could perform this act. Kayaru developed a swollen breast, and it was Yanahi, her sister's son, who performed *jau'kath* on it. All men treated the members of their biological families with medicines, but those who did not know the shamanistic cure relied on a practitioner from outside the immediate family.

Matiwana treated his son Yati without recompense, but when his daughter's husband became ill, the latter paid him for the cure with a pot. The kinship ties by which curing was free to certain relatives probably corresponded closely to the pattern of gift-giving obligations. Payments for medical treatment were called *okei pop* (medicine gift). Quain was usually given small payments for the many cures he performed for the Trumaí. In no case could it be said that any curer derived a significant income from his services.

Group Curing Ceremony

The only time that Quain witnessed the group curing ceremony (*kevere*) was on an occasion two weeks after his arrival. He noted the formal aspects carefully, but he was unable to ascertain their meanings, since his command of the language at that time was so meagre.

Maibu's wife, Matavitsa, was sick and wasted when Quain arrived in the village. Her husband had been treating her for some time by the shamanistic means of tobacco smoke and sucking, but with little success. It was decided to hold a ceremonial cure, although shamanistic techniques were not ruled out. Nearly all the adult men of the village gathered in Maibu's house for the ritual, which lasted for three hours. No women were admitted, and the door was kept closed. The *kevere* was strictly prohibited to females, and the men would not even talk of it in their presence. The women seemed to regard Quain's status as doubtful, for Maibu's sister told him that he would die if he entered. He refused to be dissuaded, and upon entering was motioned to a seat.

The men were ranged in a broad semi-circle along the side of the house opposite the sick woman's hammock. Matiwana, who was in charge of

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773 gather some vegetable dye in a tree in which he had put a snake. The wily nephew made designs on his leg with the dye which caused the snake to fall out of the tree. He returned home and resumed his relations with his uncle's wife.

Jemenary then ordered Kelenewary to cross a river in which there was a fish that would surely eat him. The nephew suffered some bites, but these he cured by smearing with another vegetable dye. The infuriated uncle then sent him to the village of Rain, Kelenewary's cross-cousin, to get a highly prized wood which Rain guarded closely. Kelenewary arrived at Rain's village and repeatedly urged Rain to have sexual intercourse with his wife. After many wakeful nights, the couple, exhausted, fell into deep sleep. Kelenewary stole the wood, and returned to his uncle's house, where he continued to sleep with his uncle's wife.

Later, when the two men were building an eagle cage, Kelenewary, who was sitting on top of it, angered his uncle by saying that the eagle was no larger than one of his wife's pubic hairs. The enraged Jemenary released the vertical poles in the framework of the structure, catapulting the insolent nephew through the air and into the branches of a tree. Kelenewary was hurt, and Nane, a creature having a human form but capable of flying, carried him to his village. Under Nane's care, he drank medicines that restored him to health and caused him to grow to a tremendous size. The uncle, in despair, created the deer with the intention of having it kill his nephew. Kelenewary, however, lassoed the animal with his armband, and it killed the uncle instead. The opposition thus removed, the nephew returned to the embraces of his dead uncle's wife.

Lore and Learning

821 [775] The cosmology of the Trumaí was not very elaborate. Many stars and constellations were known and named. As noted above, the Milky Way entered into their beliefs of an after-life. Special attention was also given to the Hesperides, which may be the constellation that dates their ceremonial season at the end of the rains. Quain was told by Thomas [241] [805] Young, the missionary, that the planting time was determined by astral phenomena. Quain was not able to confirm this, but he noted that the Trumaí knew the proper time for burning the felled brush. This knowledge was important as the rains arrive suddenly, and once the brush becomes wet it is almost impossible to fire.

805 824 825 Flora and fauna also served as markers of seasonal passage. One such sign was an insect that issued a shrill and pleasant whistle from dusk until far into the night in the weeks immediately preceding the rainy season.

B /229 cont./
*171 laterally hollowed end of the wooden support, lashing it, and
411 covering it with resin.
[239]

Sometimes a pierced, hollow tucum nut is shoved up on the arrow shaft to slightly above the middle; one or two holes are cut into the nut on the side. In flight a high-pitched whirring or whistling is heard. /230/ While the noise-making arrows are used only for bird hunting, the others are intended for all hunting and the shooting of fish; those with barbs are exclusively
B fish arrows. Arrows with sawlike notched wooden points do not
[101] occur on the Schingú except among the Yarumá, whom we regard as a southern group of the Mundurukú /Mundurucu/ of the Tapajoz /Tapajós/.

T The Suyá and Trumaí had arrows with long pointed bamboo
171 knives for war and for hunting jaguar. Spindle-shaped bamboo
411 splinters up to 35 centimeters long and up to 36 millimeters wide,
[824] knife-sharp on the edges, are mounted on the wooden stick driven deep into the reed shaft; the wooden stick is embedded in a groove
T cut below along the inner surface of the splinter. And, to be
[284] sure, the pointed spindle is only loosely fastened with a little resin and thread; when shot it remains in the body that was hit, while the shaft with the wooden stick flies off behind it.

B The most remarkable thing about the arrow is the feathering
*171 at the lower end. Two feathers, more correctly two halves of
411 feathers, for the feather is split at the shaft, are carefully fastened
237 in a spiral twist which goes around one-fourth of the circumference; each flag stands with the plane of its upper part perpendicu-
B lar on that of its lower part, so that the flying arrow spirals
[284] through the air. The feathers are set in a row of small holes, which are made with an agutí tooth and enlarged with a pointed buriti splinter, and, one may say, are sewed onto the arrow; the cotton thread is wound around the ends and is itself protected by
B being wound with waimbé bark (Philodendron). Usually the
[825] feathers come from gallinaceous birds, jakú (Penelope) and mutung (Crax), from the falcon, and from the blue arara. Where the hand grasps the arrow shaft there is a wrapping of waimbé. At the bottom a notch is cut in parallel to the upper part of the feathers.

/231 cont./

171 411 in battle. The purpose of the throwing board is /232/ to throw a stone-weighted arrow, or, if one wishes, a more graceful spear, [824] with great force. The type present on the Schingú is a thin, smooth stick of hard palm wood about 70 centimeters long, which widens at the front end into a holding plate provided with a hole and bears a small hook at the other, rear end. In other words, no board and no sign of a groove. Cf. Figures 28 /see p. 241/ and 6, p. 91.

The arrow is set in on the barb at the back, the index finger is stuck through the hole of the holding plate, while the other fingers grasp the plate and the arrow; thus, the rear part of the arrow lies securely against the throwing board, is lifted with a powerful swing, the throwing stick describes an arc forward and upward and with this lever motion sends out the arrow so "that it [824] positively whizzes." The throwing boards are made of light or [239] dark palm wood, /Fig. 28 appears here/ they are nicely smoothed, and some of them give an impression of elegance, especially if a small bunch of colored feathers hangs down from the barb cord. The plate has a width of about five centimeters in front, six centimeters in the rear, and a length of 15 centimeters; it is cut biconcave, so that the hand grasps it securely. The shaft is about four times as long. The barb on which the dart is set, a [284] bone among the Karayá, is here a little stick, two and a half centimeters long, lashed on diagonally with cotton thread. There were throwing boards in small sizes for children.

The reed thrown by our Indians is not a spear, but a real ubá arrow and is also called an arrow by them /in this work it is called arrow (Pfeil) or dart (Wurfpfeil). Only the feathering is usually more carelessly worked and not arranged spirally. Bone points and sharp wooden points do not occur. The characteristic thing about the dart is the opposite -- a possibility not provided for in the German language, it seems -- a "blunt point." /233/ In this respect, too, the characteristic of the "spear" is lacking. The dart does not spear and stab, but shatters with a heavy blow. [284] Inserted into the shaft, lashed with string, and smeared with wax were heavy stone or wood points. The stones either conical, like

/238 cont./

[171] [411] No. 2 in the accompanying figure or pear-shaped, like No. 3. Only a small part of the stone peeked out of the wax covering; cf. No. 9. The wooden points had different forms, spherical or, corresponding to the stone pear, with a long stem to be shoved into the shaft: No. 1, or (the common form) Nos. 4 and 10, a cylindrical piece that tapered at the bottom for insertion -- in No. 11 also one with a pointed projection, furthermore a knob, No. 12, and a fork, No. 8. In Figure 6 on [531] page 91, the center arrow bears a long, narrow wooden cone which is decorated with a long black linear or dot design on a white background,

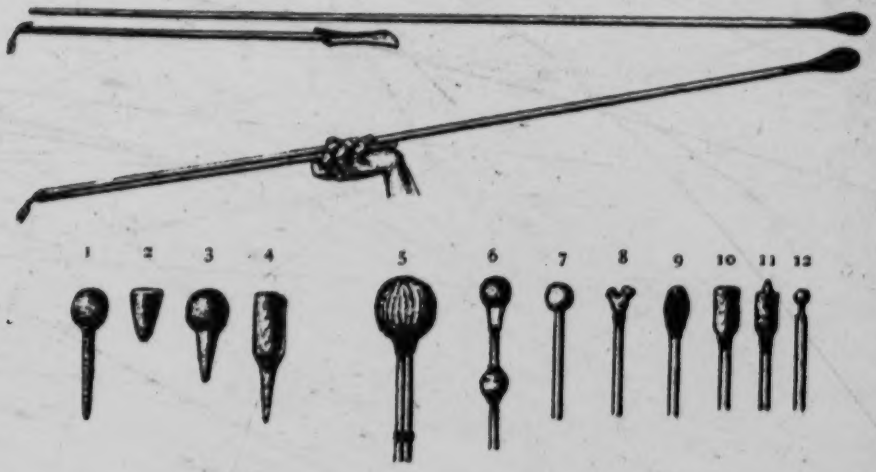

Fig. 28. Throwing board (1/13 nat. size/ as shown in the original illustration/) and the tips of the darts.

already the purely decorative weapon for the dance. Many darts bore [824] only wax knobs. Finally, we see in Nos. 6 and 7 one or two tucum nuts (Astrocaryum) set on in the manner of the noise-making arrows, and in No. 5 a fist-size tucum nut on two reed shafts lashed together.

[192] The throwing board gets its name from the tucum palm: yauarí. It is not unusual for the plant that furnishes the material to provide the name for the implement as well; the Kamayurá added a more specific identification, yauarí amomoáp, which means (amo, far; mo, causative; ap, to break apart, to wound) "tucum shattering far away." Apollo amomoáp, the one hitting far away. In a legend